

Numeracy lesson.

Monday 20th April

Mental Maths

Recommended time 15 mins

Play this fun game to help you practise counting in 2's, 3's, 5's and 10's...

<https://www.ictgames.com/mobilePage/duckShoot/index.html>



Click on this one!

L.I. To multiply using arrays.

Recommended time approx 1 hour

Steps to success

- I know what multiplication means.
- I know there are different words for multiplication.
- I can solve multiplication calculations by drawing an array.
- I know that multiplication is commutative.



All these words mean multiply!

Multiplication

multiply
times
groups of
lots of
repeated addition
product
multiplied by
array

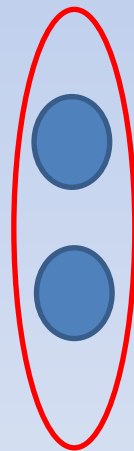


multiply
times
groups of
lots of
repeated addition
product

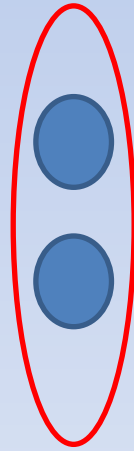
Today we will be solving multiplication calculation by drawing arrays (*we have done this before*).

This calculation 2×3 means, 3 groups of 2 or 2, 3 times. It is the same as $2+2+2$

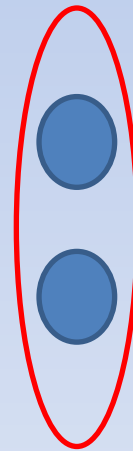
We can represent this in an array like so...



1 group
of 2



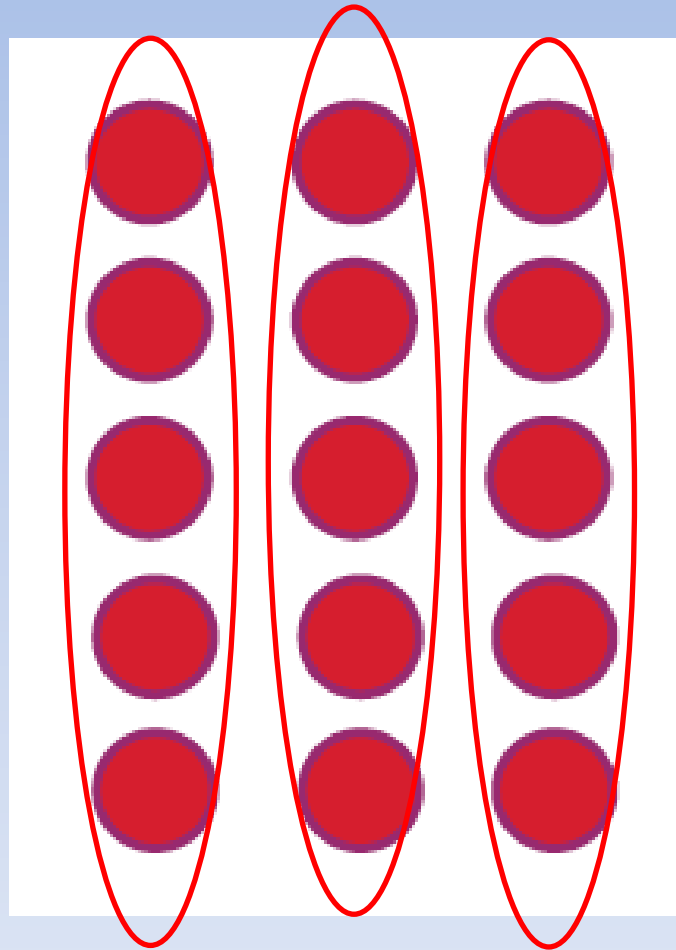
2 groups
of 2



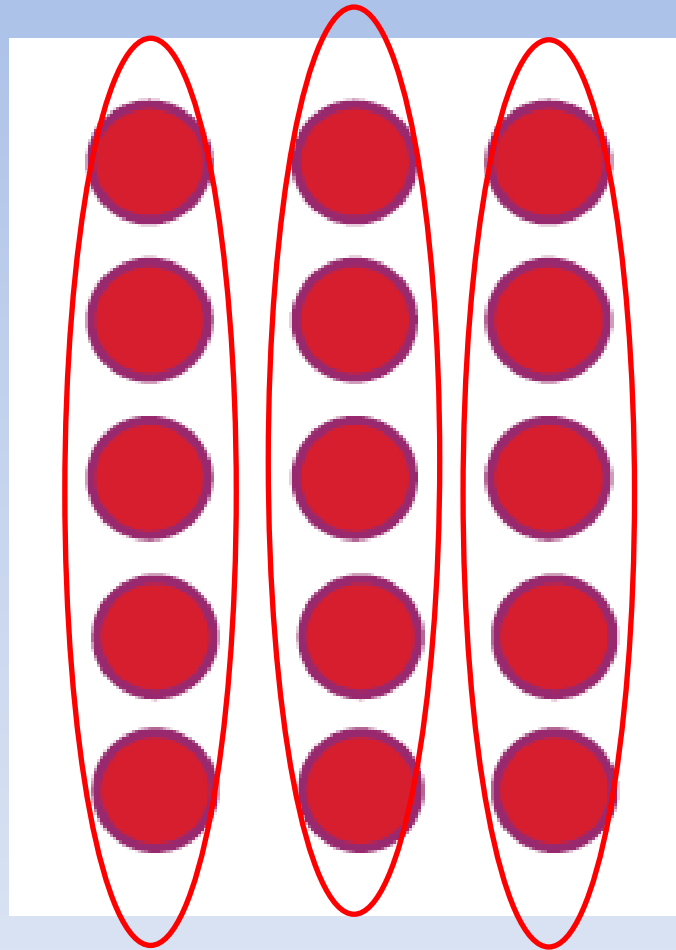
3 groups
of 2

We can count up the array to find the answer!
So $2 \times 3 = 6$

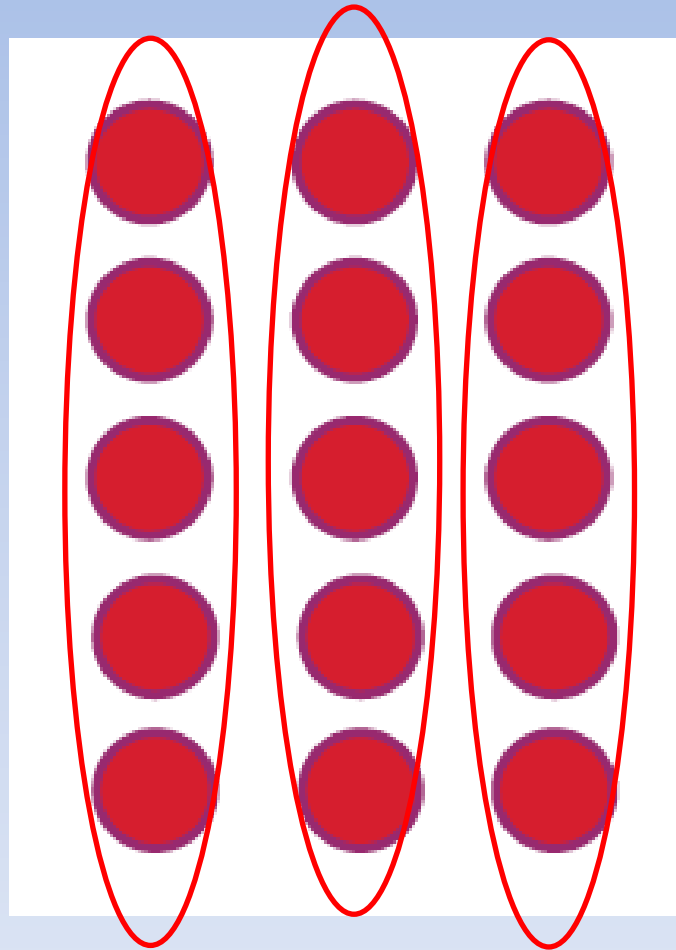
What does this array show?



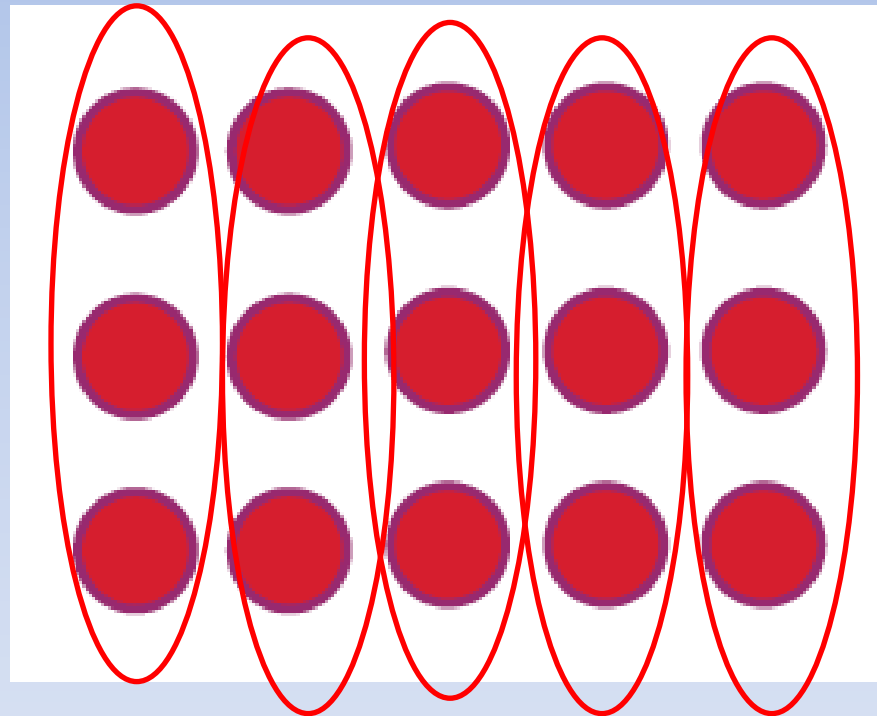
This shows 5×3 , did you get it right? What is the answer?



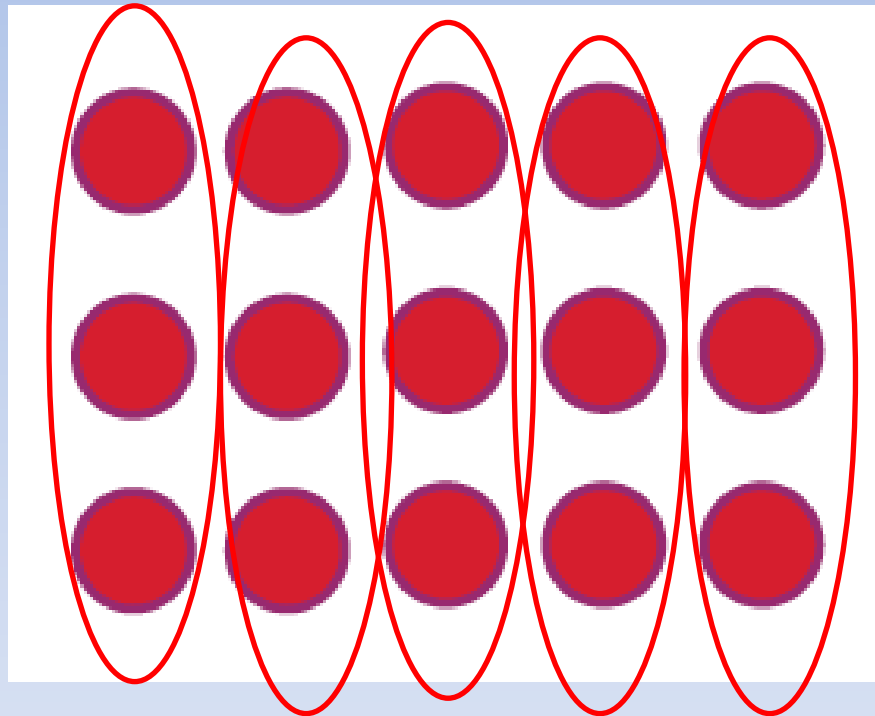
Yes $5 \times 3 = 15$! Well done!



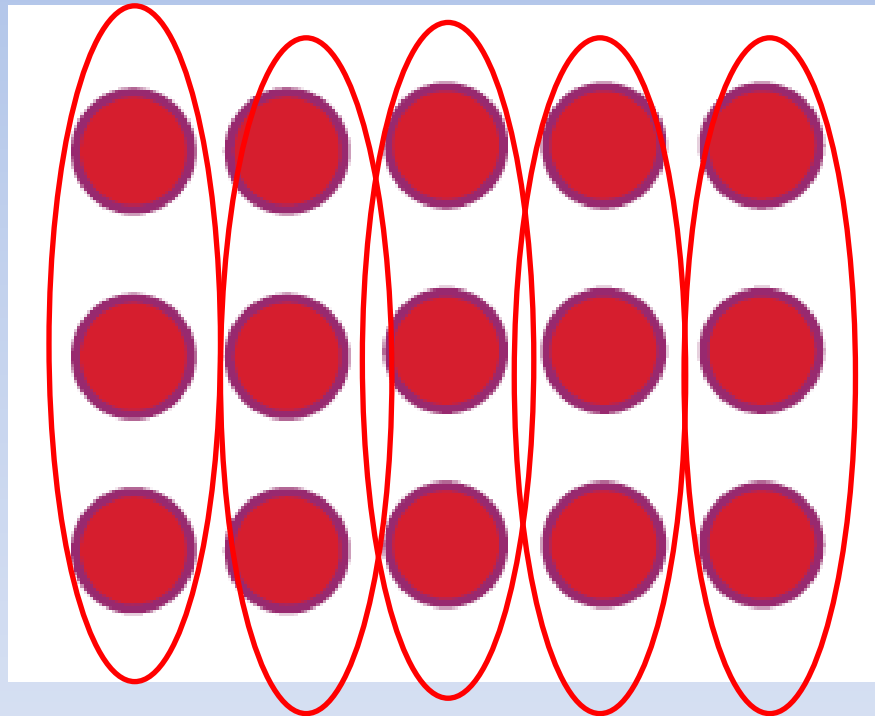
Now if I turn my array around
what does it show?



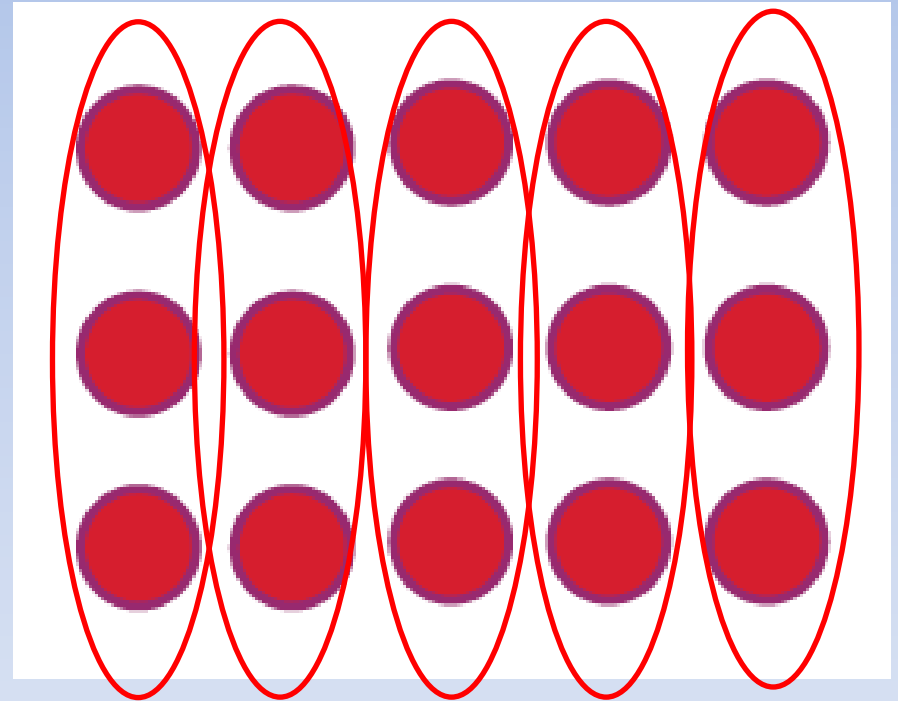
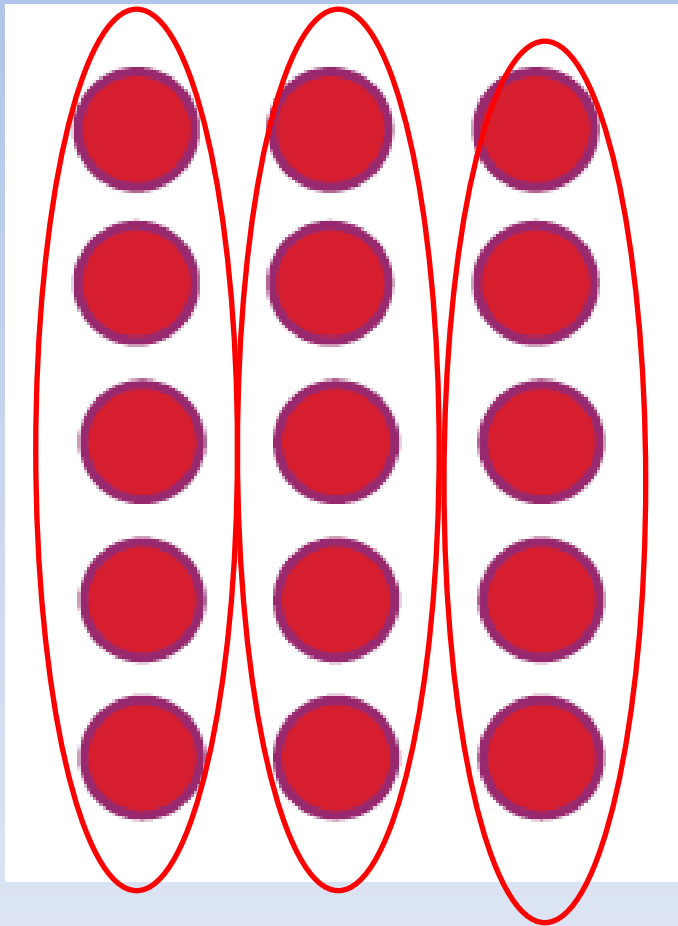
**It shows 3X5 or 3, 5 times!
What's the answer?**



3X5= 15 as well!



So $5 \times 3 = 15$ and $3 \times 5 = 15$. We can turn the array around and get exactly the same answer because we haven't changed the array. So multiplication is commutative—that means you can switch the numbers around in the calculation and get the same answer!



Your turn!

In your jotter calculate the following by drawing the arrays. Then turn your array around and record the other multiplication calculation you can see! You choose which chilli challenge suits your level of understanding!

Mild



1. $2 \times 5 =$
2. $5 \times 6 =$
3. $2 \times 8 =$
4. $10 \times 2 =$
5. $2 \times 6 =$
6. $10 \times 4 =$
7. $5 \times 3 =$
8. $10 \times 7 =$

Spicy



1. $2 \times 6 =$
2. $3 \times 4 =$
3. $5 \times 7 =$
4. $10 \times 3 =$
5. $2 \times 4 =$
6. $3 \times 9 =$
7. $5 \times 4 =$
8. $10 \times 8 =$

Hot



1. $2 \times 8 =$
2. $3 \times 9 =$
3. $5 \times 8 =$
4. $6 \times 3 =$
5. $7 \times 4 =$
6. $8 \times 3 =$
7. $9 \times 5 =$
8. $10 \times 4 =$

Let's reflect on our learning!

Do you now...

...know what multiplication means?

...know there are different words for multiplication?

...solve multiplication calculations by drawing an array?

... know that multiplication is commutative?

Not achieved the learning intention- I've answered 'no' to all of the above.
Go through the slides again.

Partly achieved the learning intention- I've answered 'yes' to some of the above
Goo job! We'll keep practising.

Achieved the learning intention- I've answered 'yes' to all of the above.
Well done!

